SWP Water Quality Summary

June 19, 2003

Total Dissolved Solids: TDS concentrations in all six locations at California Aqueduct, North and South Bay Aqueducts were lower relative to Article 19 Objective as well as MCL for drinking water. A maximum of 413 mg/l was recorded at check 29 on February 5, 2003, while the lowest of 155 mg/l was recorded at Banks. Heavy late spring rainfall and runoff contributed to lower Delta salinity, as pumping increase at Banks, better salinity quality water will move in SWP.

Bromide: Of all the monitored locations, checks 29 and 41 on California Aqueduct and Vallecitos on the South Bay Aqueduct were higher compared to the rest of the locations. Even though there is no set standard for Bromide, all the sampled locations exceeded Calfed Objective (0.050 mg/l). Barker Slough had the lowest concentration of 0.015 mg/l. Bromide levels also dropped in Delta with high runoff and declining salinity.

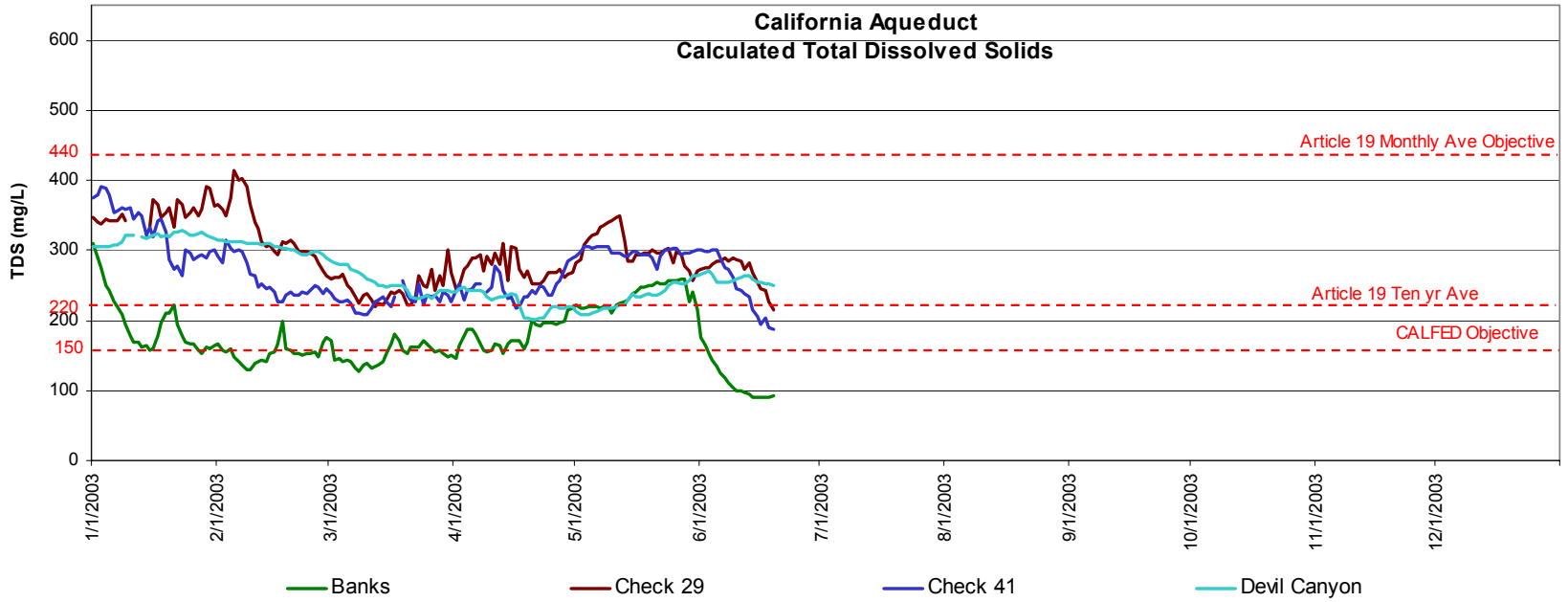
Turbidity: Turbidity at the North and South Bay Aqueducts is higher compared to the California Aqueduct during this six months period. Turbidity at Banks, Barker Slough, Checks 29 and 41, shows similar trends between January and June, 2003. Barker Slough had the highest concentration, while Banks was highest in the California Aqueduct. Both peaks occurred between May and June, 2003. High turbidity spikes at Bank, is typically associated with wind induced turbulence.

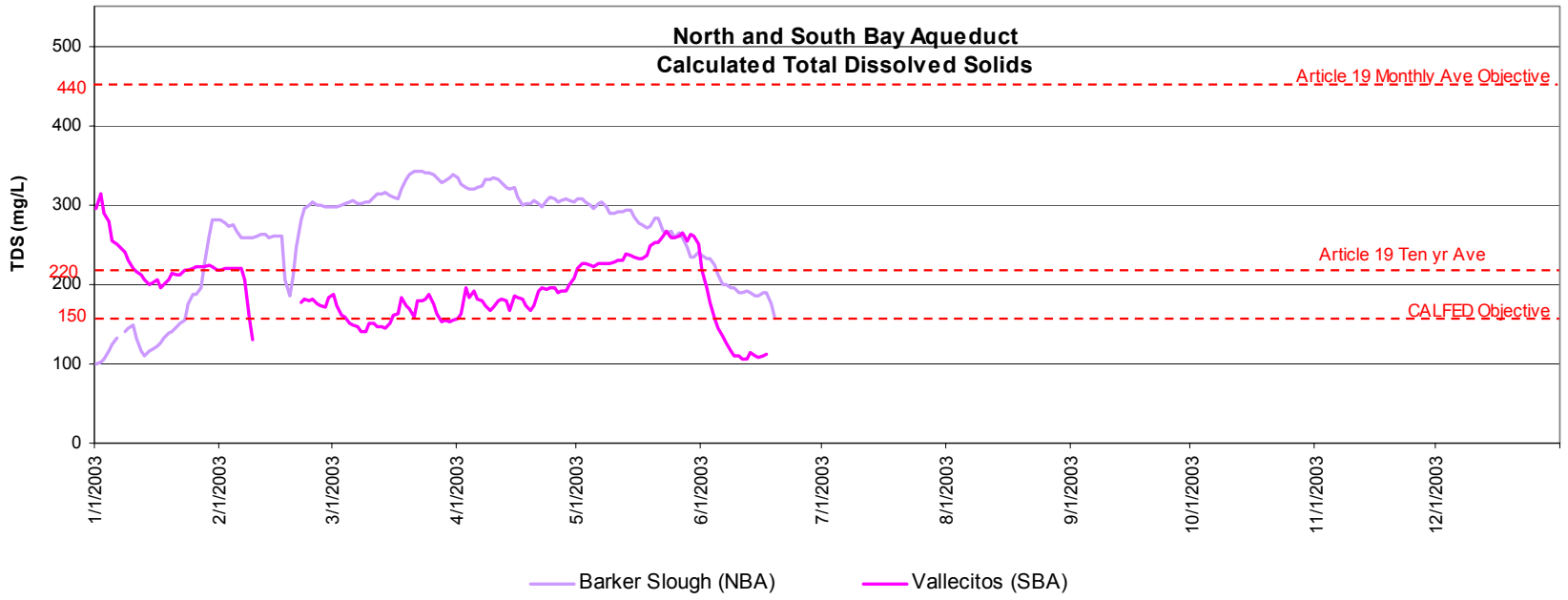
Dissolved Organic Carbon: The highest concentrations of DOC within this six months period were measured at Banks pumping plant and check 13 in January 2003. DOC levels will continue to decline from high winter peaks to a sustained level of 3 to 4 mg/l DOC.

Taste and Odor Compounds: The taste and odor compounds MIB and geosmin, were low in the Delta and South Bay Aqueduct. High levels of attached algae in California Aqueduct downstream of check 28 and on East Branch produced high concentration of geosmin >20ug/l. Copper sulfate application on East Branch reduced the algae concentration and taste and odor compounds. High levels of these compounds are now in Lakes Silverwood and Perris.

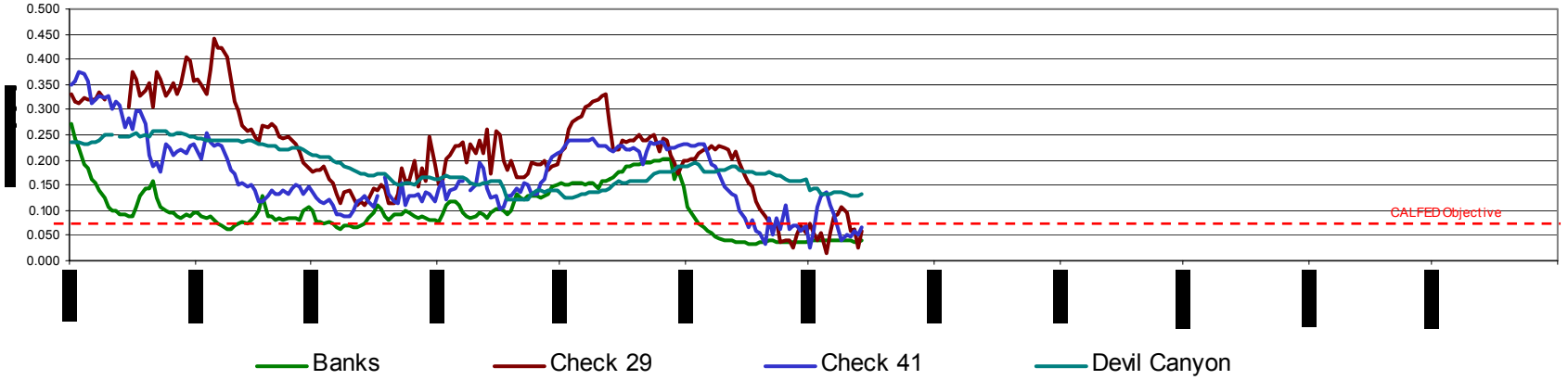
Ground Water Pump-in: No ground water pump-in during May through mid June.

For more information refer to: http://wwwomwg.water.ca.gov **and**
http://wwwdpla.ca.gov/supply/sampling/mwg/main.htm

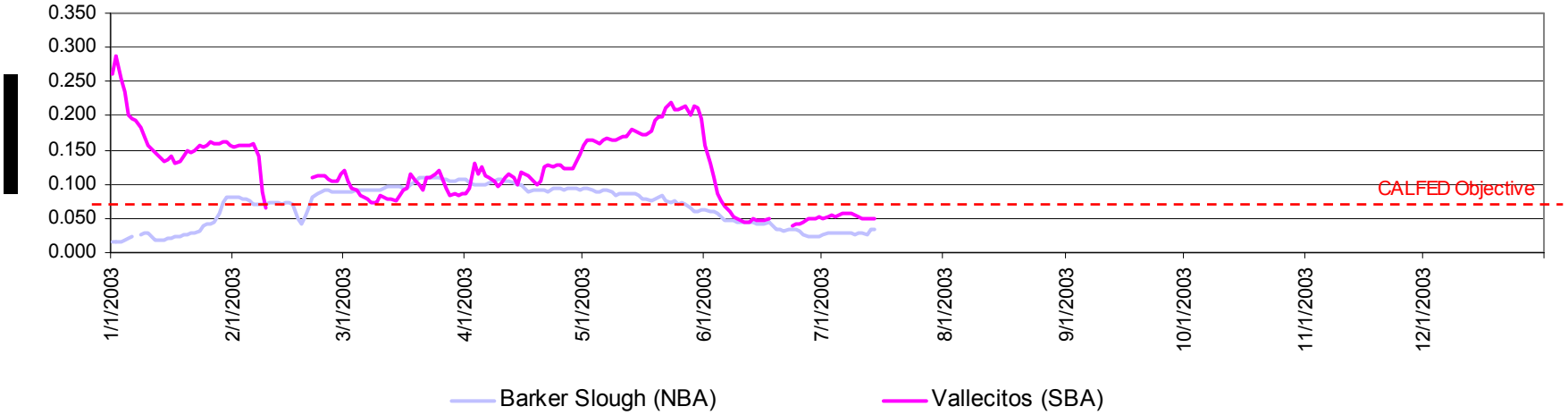

California Aqueduct
Calculated Total Dissolved Solids
TDS (mg/L)
600
500
440
400
300
220
200
150
100
0
Article 19 Monthly Ave Objective
Article 19 Ten yr Ave
CALFED Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 29
Check 41
Devil Canyon

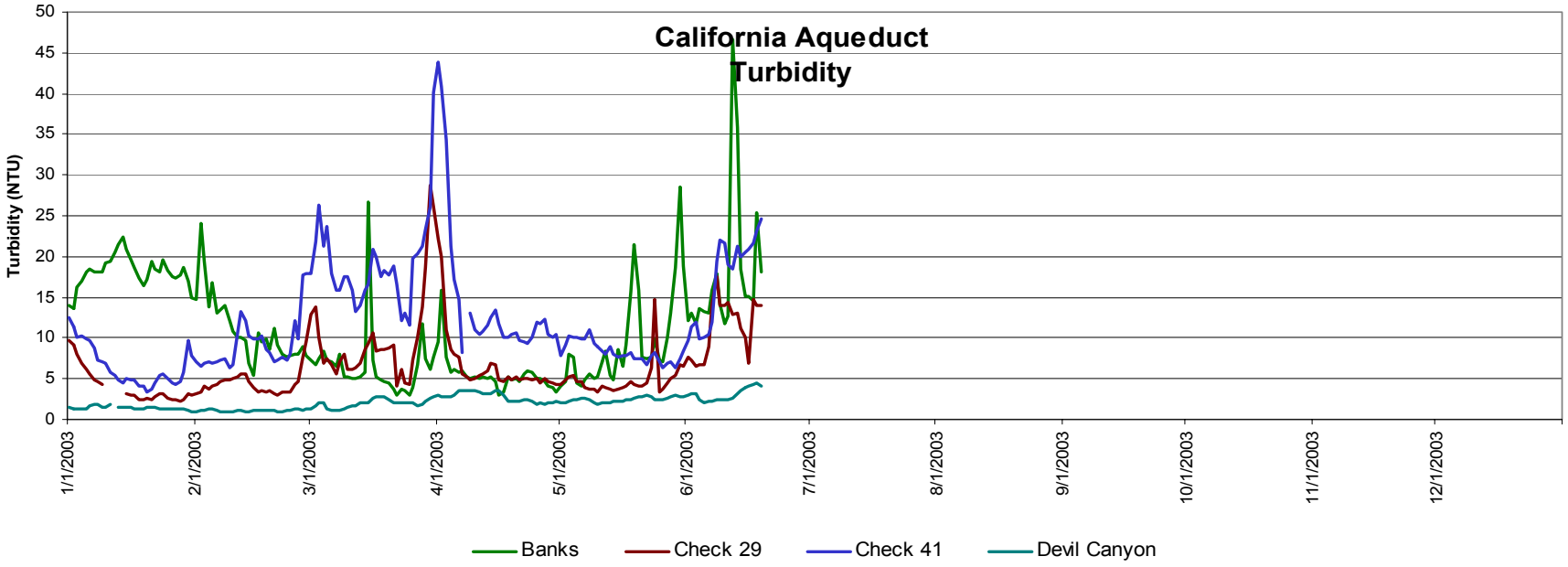

North and South Bay Aqueduct
Calculated Total Dissolved Solids
TDS (mg/L)
500
440
400
300
220
200
150
100
0
Article 19 Monthly Ave Objective
Article 19 Ten yr Ave
CALFED Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Barker Slough (NBA)
Vallecitos (SBA)

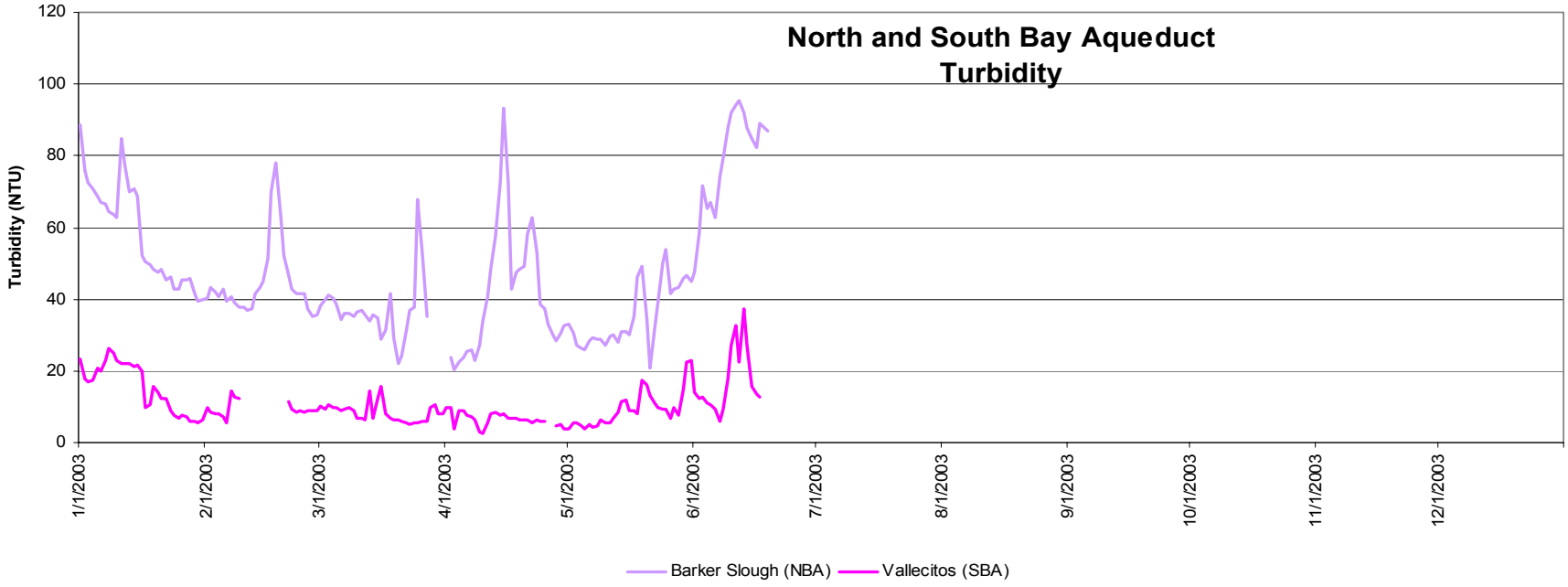
California Aqueduct
Calculated Bromide

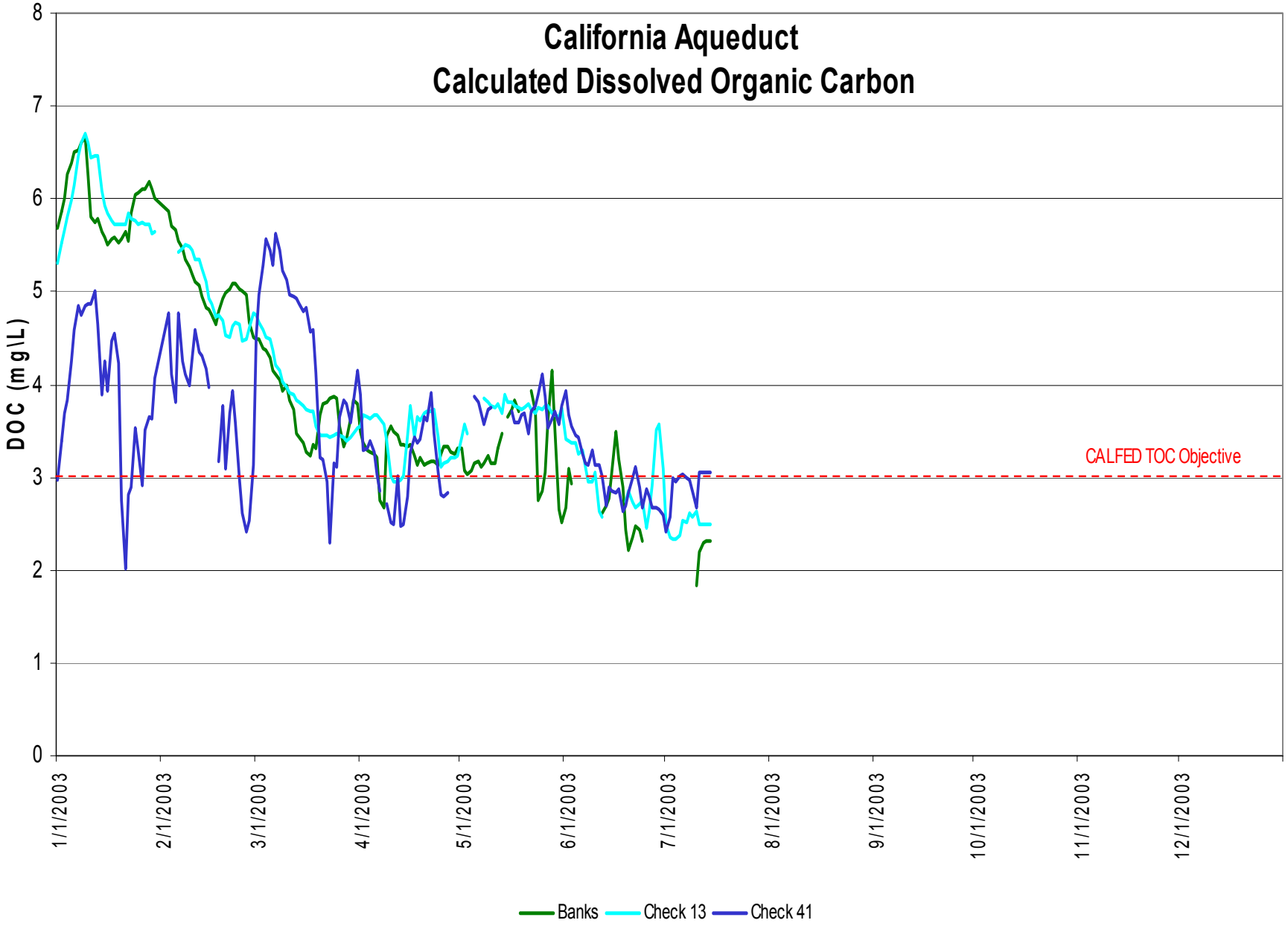


North and South Bay Aqueduct
Calculated Bromide




California Aqueduct
Turbidity
Turbidity (NTU)
50
45
40
35
30
25
20
15
10
5
0
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 29
Check 41
Devil Canyon


North and South Bay Aqueduct
Turbidity
Turbidity (NTU)
120
100
80
60
40
20
0
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Barker Slough (NBA)
Vallecitos (SBA)


California Aqueduct
Calculated Dissolved Organic Carbon
DOC (mg\L)
8
7
6
5
4
3
2
1
0
CALFED TOC Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 13
Check 41